Performance Data Sheet

AEA5460EXA

General Information

Model	AEA5460EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	894	666					
	Watts	72.9	119					
	Amps							
	Lb/h	42.0	36.1					
-10	Btu/h	1460	1230	973				
	Watts	119	166	212				
	Amps			0.77				
	Lb/h	44.1	38.9	33.1				
-5	Btu/h	2030	1780	1520	1240			
	Watts	163	211	258	305			
	Amps		0.24	1.08	1.94			
	Lb/h	46.2	41.6	36.6	30.8			
0	Btu/h	2590	2330	2060	1770	1470		
	Watts	205	254	302	350	397		
	Amps		0.63	1.43	2.24	3.07		
	Lb/h	48.4	44.5	40.0	34.9	29.3		
5	Btu/h	3170	2890	2600	2300	1980		
	Watts	245	295	343	392	440		
	Amps	0.32	1.05	1.80	2.57	3.35		
	Lb/h	51.0	47.5	43.5	39.0	34.0		
10	Btu/h	3750	3450	3140	2830	2500	2160	1810
	Watts	285	334	383	433	482	530	578
	Amps	0.80	1.49	2.20	2.93	3.67	4.43	5.21
	Lb/h	54.1	50.9	47.3	43.3	38.8	33.9	28.3
15	Btu/h	4360	4040	3700	3360	3020	2660	2300
	Watts	323	373	422	472	521	570	619
	Amps	1.28	1.95	2.62	3.31	4.01	4.73	5.46
	Lb/h	57.7	54.7	51.4	47.8	43.8	39.3	34.4
20	Btu/h	5000	4640	4280	3920	3550	3170	2790
	Watts	361	411	460	510	559	609	658
	Amps	1.77	2.41	3.06	3.71	4.38	5.05	5.74
	Lb/h	62.1	59.2	56.1	52.8	49.1	45.0	40.6

25	Btu/h	5670	5270	4880	4490	4090	3690	3290
	Watts	399	448	497	547	597	646	696
	Amps	2.25	2.87	3.49	4.12	4.75	5.40	6.05
	Lb/h	67.4	64.5	61.4	58.2	54.8	51.1	47.0
30	Btu/h	6370	5940	5520	5090	4660	4240	3810
	Watts	437	486	535	584	633	683	733
	Amps	2.73	3.33	3.93	4.53	5.14	5.75	6.37
	Lb/h	73.6	70.6	67.6	64.4	61.1	57.6	53.8
35	Btu/h	7120	6650	6180	5720	5260	4800	4340
	Watts	476	524	572	621	670	719	769
	Amps	3.18	3.77	4.36	4.94	5.53	6.12	6.71
	Lb/h	81.0	77.8	74.6	71.4	68.2	64.8	61.2
40	Btu/h	7920	7400	6900	6390	5900	5400	4910
	Watts	516	563	610	658	707	756	805
	Amps	3.62	4.20	4.77	5.34	5.91	6.48	7.05
	Lb/h	89.7	86.2	82.8	79.4	76.1	72.7	69.1
45	Btu/h	8770	8210	7660	7110	6570	6040	5510
	Watts	557	603	649	696	744	792	841
	Amps	4.02	4.60	5.17	5.73	6.28	6.83	7.38
	Lb/h	99.8	95.8	92.1	88.5	85.0	81.5	77.9
50	Btu/h	9690	9070	8470	7870	7290	6710	6140
	Watts	600	644	690	736	782	830	877
	Amps	4.39	4.97	5.53	6.09	6.63	7.17	7.71
	Lb/h	111	107	103	98.8	95.0	91.3	87.6
55	Btu/h	10700	10000	9340	8700	8060	7440	6820
	Watts	645	688	732	776	822	868	915
	Amps	4.72	5.30	5.87	6.42	6.96	7.49	8.02
	Lb/h	125	120	115	111	106	102	98.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.399404E+03	-1.966635E+02	-5.922325E+00	6.910758E+01
C2	1.574339E+02	8.053864E+00	1.355908E-01	2.712486E-01
C3	-2.089025E+01	5.112934E+00	7.011577E-02	-2.036989E-01
C4	7.721260E-01	3.091541E-03	-2.749574E-04	2.309311E-02
C5	-7.327433E-01	-7.380540E-03	-3.257986E-04	-3.476108E-03
C6	-5.500820E-03	-7.450973E-04	1.288584E-07	8.849562E-05
C7	7.890912E-03	4.897089E-04	-8.675821E-06	1.833399E-04
C8	-7.556354E-03	-4.267027E-04	9.038172E-06	-2.093476E-04
C9	2.353200E-03	1.192060E-04	-3.059311E-06	7.664332E-05
C10	-1.987647E-04	-5.292545E-06	3.352526E-07	-9.642445E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature